**Velocity Self-Practice Name:**

**Directions:** Complete the questions. You may NOT work with a partner, but you may use your notes.

1. Label the following as speed, velocity, distance, displacement, or time.  
   1. 88 km/hr ­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. 19 m/s west \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. 6 s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   4. 12 m down \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   5. 46 km \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   6. 16 min. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   7. 36 m/s north \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   8. 7.3 mph \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Use the following data to answer the questions.

|  |  |
| --- | --- |
| Time (seconds) | Distance (meters) |
| 0 | 0 |
| 1 | 96 |
| 2 | 192 |
| 3 | 288 |
| 4 | 384 |

1. Plot a velocity graph on the graph paper below.
2. Calculate the average velocity.
3. Calculate the instantaneous velocity at 3 seconds.
4. Is the person speeding up, slowing down, or neither? How did you know?